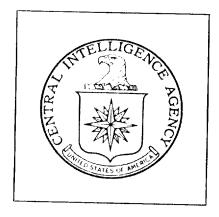
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DIRECTORATE OF INTELLIGENCE

Declass Review by NIMA / DoD

# Imagery Analysis Report

Selected Locomotive and Railroad Car Plants Communist China

Top Secret 25X1

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SUMMARY

Comparative analysis of photography covering ten selected locomotive and railroad car plants in Communist China reveals minor expansion of the industry over the past five years. No disruptions of production activity were apparent from the photography. The plants studied include the seven present major producers of locomotives, freight cars, and passenger cars in Communist China, plus three plants which are primarily involved in repair and the manufacturing of parts.

NOTE: This report was prepared in direct support of the Central Intelligence Agency.

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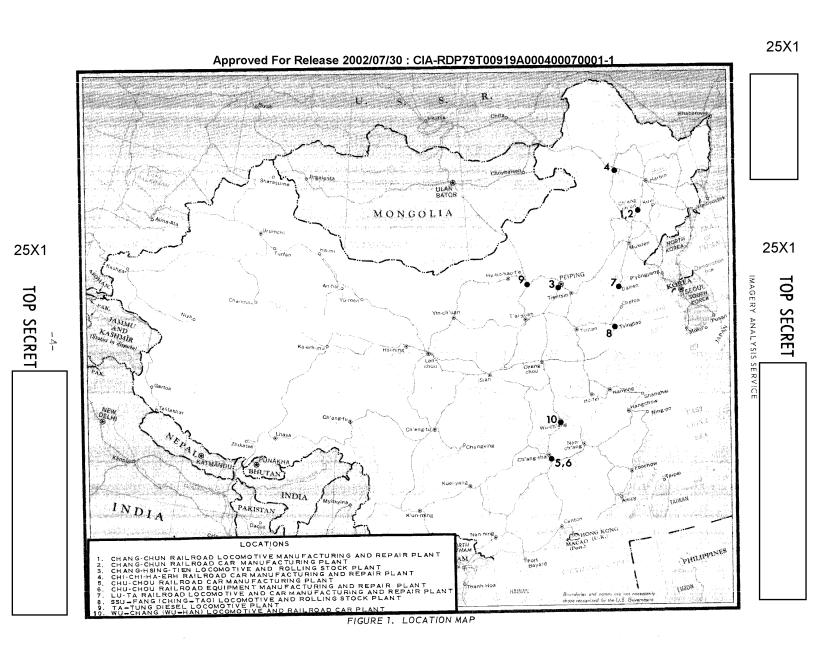
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### INTRODUCTION

	is based on photography	25X1
	Seven of the plants studied are the present major producing	∠3∧ I
	plants in this industry, while the other three plants are mainly used for	
	repair and the manufacturing of parts. The photographs of each plant used	
	in this report are from the latest available good-quality photography. The	
	specific function of the buildings annotated on the photographs is found	
_	in the accompanying key to annotations.	25X1
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CHANG-CHUN RAILROAD LOCOMOTIVE MANUFACTURING AND REPAIR PLANT CHANG-CHUN, CHINA

The Chang-chun Railroad Locomotive Manufacturing and Repair Plant is located at 43-55-35N 125-18-36E (Figure I, Item I) in the northern suburbs of the city of Chang-chun. The plant is served by a good road network and by several rail spurs off the Chang-chun to Ssu-ping Rail Line.

The entire plant occupies an area of approximately. II5 acres and has 491,000 square feet of roof cover. When the plant was first observed on imagery of it appeared that all of the major buildings were complete. An accurate analysis of the plant could not be accomplished due to poor-quality imagery. The plant was next observed and all 25X1 of the major buildings were complete and in operation with the exception of Items 2, 5, and 7 which were in the early stages of construction. The construction of these three buildings continued when they were first observed complete. Railcars were observed within the plant

## KEY TO ANNOTATIONS

<u>Item</u>	Description	<u> tem</u>	Description
1 2 3 4 5 6 7	Support Buildings (2) Steam Plant Probable Forge Shop Warehouse Unidentified Workshop Assembly Building Workshop	8 9 10 11 12 13	Workshop Workshop Repair Shop Foundry Shop Probable Forge Shop Administration Building Support Buildings (2)

Note: This plant is mainly a repair facility at the present time.

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# CHANG-CHUN RAILROAD CAR MANUFACTURING PLANT CHANG-CHUN, CHINA

The Chang-chun Railroad Car Manufacturing Plant is located at 43-54-33N   125-17-40E (Figure I, Item 2) in the northwest	25X1
suburbs of Chang-chun. The plant is served by a good road network and a rail spur off the rail line extending from Chang-chun to Ssu-ping.	
The entire plant occupies an area of approximately 320 acres and has	
tylight of square reer of tool cover. The heart was first observed as	
IDOWEVER due to imagory of page	
analysis of the plant could not be accomplished. When next observed in	
I I I I I I I I I I I I I I I I I I I	
of two forge buildings (Items 4 and 6). The plant was operating, with	
numerous rail cars located within the area. When the plant was next observed	
the two forgo buildings when the plant was next observe	∍d
the two forge buildings were complete. The plant was operating each time it was observed	051/4
are arring sach time it was observed	25X1

### KEY TO ANNOTATIONS

<u>ltem</u>	Description	<u>ltem</u>	Description
1 2 3 4 5 6 7 8 9 10	Unidentified Workshop Possible Sand Preparation Building Foundry Probable Forge Shop Workshop Probable Forge Building Workshop Steam Plant Machine Shop Warehouse Workshop	12 13 14 14a 14b 15 16 17 18 19 20	Administration Buildings (2) and a Vehicle Shed Assembly Building Machine Shop/Subassembly Assembly Section Subassembly Section Inactive Steel Mill Workshop Workshop Woodworking Shop Machine Shop/Subassembly Building Workshop

Note: This plant is presently producing passenger cars.

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## CHANG-HSING-TIEN LOCOMOTIVE AND ROLLING STOCK PLANT CHANG-HSING-TIEN, CHINA

The Chang-hsing-tien Locomotive and Rolling Stock Plant	25X1
is located at 39-49N   116-11E (Figure 1, 1tem 3) approximately []	
nautical miles southwest of the city of Peking. The plant is served by a	
good road network and a rail spur off the rail line extending from Peking to	,
Liu-li-ho.	
The entire plant occupies an area of approximately 70 acres and has	
489,000 square feet of roof cover. The plant was first observed on imagery	
However, due to poor-quality imagery	,
an analysis of the facilities could not be accomplished. When the plant	
was next observedall of the major facilities were comple	te.
The plant appeared to be operating with numerous rail cars observed througho	ut
the entire area.	
_	05)//
From a comparison of available imagery	25X1
no additional construction activity was noted. The plant appeared to	•
be operating when observed on all available imagery.	

## KEY TO ANNOTATIONS

<u>ltem</u>	Description	<u>  tem</u>	Description
1 2 3 4	Assembly Building Machine Shop Workshop Foundry	5 6 7	Support Area Forge Building Steam Plant

Note: This plant is mainly a repair facility at the present time.

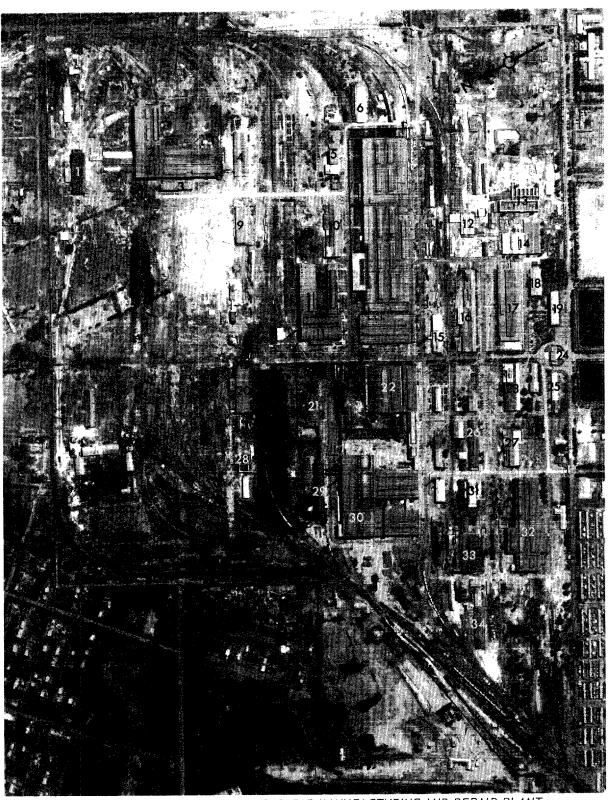


FIGURE 5. CHI-CHI-HA-ERH RAILROAD CAR MANUFACTURING AND REPAIR PLANT,

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IMAGERY ANALYSIS

CHI-CHI-HA-ERH RAILROAD CAR MANUFACTURING AND REPAIR PLANT CHI-CHI-HA-ERH, CHINA

The Chi-chi-ha-erh Railroad Car Manufacturing and Repair Plant is located at 47-20-55N 124-00-50E (Figure I, Item 4) within the city of Chi-chi-ha-erh, China. The plant is served by an excellent road network and several rail spurs.	
The entire plant occupies an area of approximately 330 acres and has 1,630,000 square feet of roof cover. When the plant was first observed on imagery all of the major buildings were complete, and no construction activity was noted. Imagery revealed a new workshop (Item 28) under construction. When the plant was next observed the construction of the workshop (Item 28) was suspended, and a workshop (Item I) was undergoing repairs. There was no construction activity noted until a new saw mill (Item I3) and an addition to the forge and foundry were observed under construction. When observed the workshop (Item 28) was then complete.	25X1 25X1
was last observed	

KEY TO ANNOTATIONS

<u>ltem</u>	Description	<u>ltem</u>	Description
1	Workshop	18	Warehouse
2	Foundry	19	Administration Building
3	Administration Building	20	Workshop
4	Warehouse	21	Steam Plant
5	Workshop	22	Forge Building
6	Warehouse	23	Possible Forge Building
7	Assembly and Final	24	Administration Building
	Check-out Building	25	Warehouse
8	Warehouse	26	Workshop
9	Workshop	27	Probable Foundry
10	Workshop	28	Workshop
11	Forge Building	29	Producer Gas Plant
12	Possible Saw Mill and	30	Forge and Foundry Building
	Wood Drying Kiins	31	Forge Building
13	Saw Mill	32	Railroad Car Repair
14	Warehouse/Workshop		Shop
15	Workshop	33	Foundry Building
16	Workshop	34	Warehouse
۱7	Workshop		··

Note: This plant is presently producing freight cars.

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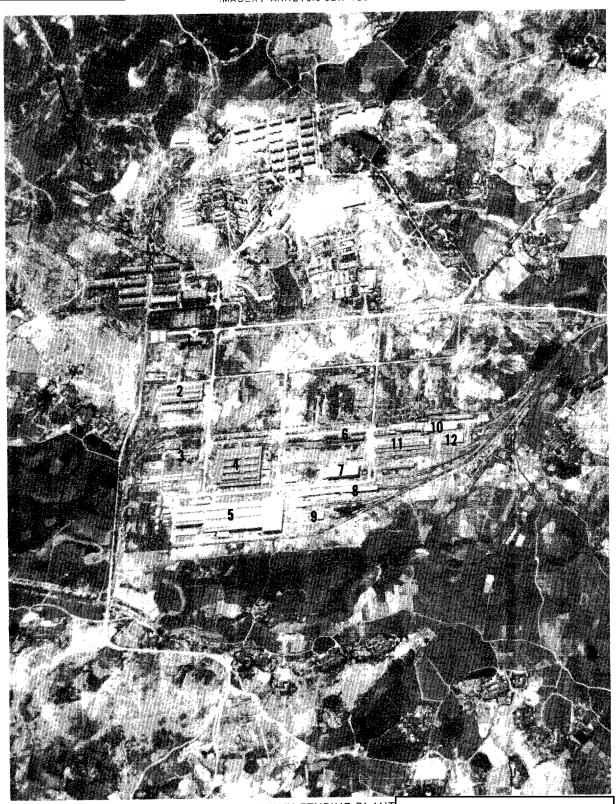


FIGURE 6. CHU-CHOU RAILROAD CAR MANUFACTURING PLANT

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# CHU-CHOU RAILROAD CAR MANUFACTURING PLANT CHU-CHOU, CHINA

The Chu-chou Railroad Car Manufacturing Plant is located at 27-53-00N II3-I2-00E (Figure I, Item 5) approximately 4 nautical miles northeast of the city of Chu-chou. The plant is served by a good road network and a 3-nautical-mile rail spur from the Chu-chou to Hsiang-tan Railroad.

	the entire plant occupies an area of approximately 140 acres and has	
	515,000 square feet of roof cover. When the plant was first observed on	
	imagery 90 percent of the area was obscured by heavy	
	clouds. Unly one <u>warehouse</u> (Item 2) could be observed and was complete.	
	When next observed the area that was previously obscured	
	by clouds was clear, revealing the existence of five additional buildings	
	(Items I, 3, 4, 6, and II). It is impossible to determine whether or not	
	these five buildings had existed on the earlier imagery	25X1
	Imagery revealed the plant in operation. Numerous rail-	20/(
	road cars were observed throughout the plant area. Construction then	
	halted when a new addition to the final check-out building	
	(Item 6) and the construction of a new warehouse (Item 12) were observed.	
		25X1
f	At the present time	
L	onry approximatery so percent of the plant area is being used, leaving the	
	other half of the area for later expansion. The road network for this	
	portion has already been constructed. The plant was operating on all	
	imagery	

#### KEY TO ANNOTATIONS

<u> tem</u>	Description	<u>ltem</u>	Description
1	Administration Building	7	Workshop
2	Warehouse	8	Final Check-out Building
3	Forge Building	9	Possible Steam Plant
4	Final Assembly Building	10	Warehouse
5	Final Assembly Building		Warehouse
6	Final Check-out Building	12	Warehouse

Note: This plant is presently producing freight cars.



FIGURE 8. LU-TA RAILROAD LOCOMOTIVE AND CAR MANUFACTURING AND REPAIR PLANT,

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## LU-TA RAILROAD LOCOMOTIVE AND CAR MANUFACTURING AND REPAIR PLANT LU-TA, CHINA

The Lu-ta Railroad Locomotive and Car Manufacturing and Repair Plant is located at 38-55-10N 121-34-25E (Figure I, Item 7) within the city of Lu-ta. The plant is served by a good road network and several railroad spurs.	
The entire plant occupies an area of approximately 250 acres and has 1,255,000 square feet of roof cover. The plant was complete and in operation when first observed Numerous railroad cars of various types were scattered throughout the plant	25>
no construction activity was noted. However, analysis of revealed that approximately 30 percent of the possible final check-out building (Item 26) was dismantled and that a new final check-out building (Item 27) was constructed. The plant was operating when last observed	25>
eperating when rast observed	25)

### KEY TO ANNOTATIONS

<u> tem</u>	Description	1tem	Description
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Workshop Assembly Building Warehouse Forge Building Warehouse Workshop Possible Foundry Final Check-out Building Warehouse Warehouse Possible Machine Shop Workshop Foundry Subassembly Building Assembly Building	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	Final Check-out Building Possible Machine Shop Foundry Possible Machine Shop Warehouse Steam Plant Possible Assembly Building Assembly Building Assembly Building Assembly Building Possible Final Check-out Building Final Check-out Building Forge Building Substation Steam Plant

Note: This plant is presently producing freight cars and locomotives.

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